Objective Force Soldier Requirements Review Council



Soldiers....the Centerpiece of our Formations

Objective Force Soldier Requirements Review Council



Soldiers....the Centerpiece of our Formations





Objective Force Soldier RRC PURPOSE

- Obtain CSA approval of concepts and way ahead to market, outreach, recruit, assess, precondition, train, and equip the Objective Force Soldier
- Obtain CSA approval to pursue new management model for Soldier weapons and equipment acquisition
- Identify emerging resource requirements for POM Process
- Frame issues for decision in the Personnel Transformation RRC and State of the Army Review (2d QTR, FY03)





MG

Objective Force Soldier RRC AGENDA

5 min RRC Introduction

50 min

Rochelle/COL Fondacaro

40 min

- Science & Technology

- Acquisition

25 min

LTG Riggs

Developing the OF Soldier

Equipping the OF Soldier

Dr. Andrews

COL(P) Moran

Discussion/Summary

The Future Environment

· Dispersed, Non-Illnear

Battlefield

Unpredictability, Extreme Violence of

the Close Fight

• More Urban and Complex

Terrain

Presence / Impact of Humanitarian

Considerations

Increased Media Presence and

Impact > 1

Dynamic Transitions at Tactical

Leve

Constant, high intensity, close combat

- No rear areas no sanctuary
- Information Operations effects down to the tactical level
- Constantly changing ROE and tactics
- Combatant and noncombatant roles blurred.
- Extreme stress, soldier / leader fatigue

Requires Consideration of these Factors

location - must be fully prepared to engage in close combat

 Presence of media will expand IO to the tactical level, testing soldier poise, bearing, & understanding of commander's intent Rapid changes will require quick and accurate assessment of combat situations ncreased physical psychological stress over longer time frame

- Dispersed distances will challenge discipline, motivation, and confidence in self and team
 - Rapid individual judgment and decision-making function at lower levels

Implications for Soldiers

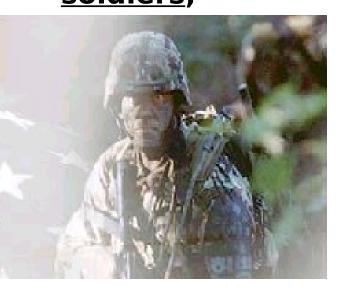
"By far the most important design requirement will be the development of adaptable soldiers,



new ways to think & operate

Design education and training to . . .

- Develop a universal soldier identity as warriors with a common baseline of values, discipline, and warfighting expertise
- Develop mental agility and versatility to master rapid transitions
- Develop confidence resolving ambiguity and dominating any situation
- Develop and foster a universal, warrior culture based on disciplined initiative, teamwork and mutual respect & appreciation



Soldiers Are the Centerpiece of Our Formations



Objective Force Soldiers must master the transition requirements to see first, understand first, act first, and finish decisively faster than the enemy. How we enable this Soldier to accomplish this will have profound implications on how the Army recruits, trains, and equips its Soldiers

Soldiers' Confidence Derives From

- Confidence in Training
- > Confidence in Equipment
- >Trust in Leaders



"Their collective proficiency and willingness to undergo the brutal test of wills that is combat remains the ultimate test of Army force readiness."

Preparing Soldiers for the Objective Force



- Invest in those qualified to join the Army
- Instill the Army Values
- Imbue the Warrior Ethos
- Motivate to remain, and develop through standardsbased, life-long learning
- Train as fit, disciplined, and adaptive team members
- Psychologically and Physically prepare for full spectrum conflict

Effective training produces the force - soldier, leaders, and units - that can ccessfully execute any assignment or mission (FM 7.0., Training the Force, 1 Oct

The Objective Force Soldier is Different!

"An Azimuth to the Future.....Not an Indictment of

the Past.' FROM TODAY TO THE FUTURE SUSTAIN Structured learner **Embraces Army Values** Adaptive learner Wants to succeed Refuses to accept Narrow commitment defeat **Rapid Learner** Leader dependent Broad commitment Orders dependent Self-reliant **Desire for Team Membership** Disciplined initiative Reactive Proactive Structured deployability **High Motivation** Deployable mindset Externally motivated Self-motivated Follower-oriented Leader pøtential Undeveloped judgmerRapidly Evolves to New Tech •Sound judgment Limited tech exposure Comfortable with new Task-Focused technology

... Every Soldier Imbued with • Dominates Situations Army Values and the Warrior

The Objective Force Soldier Model

D

KNOW

טע

Values

Characteristi

Actions

A Soldier of Character and Competence Imbued with the Warrior Spirit, Persuasive in Peace, Invincible in War!

Loyalty

Duty

Respect

Selfless Service

Honor

Integrity

Personal Courage Warrior Ethos

Self disciplined

Active Team Member

Proactive

Physically & Mentally

tough

Self-Motivated

Confident

Leader Potential

Disciplined initiative

Dominates situations

Deployable

mindset

Self Reliant

Adaptive Learner

Decisive

Sound Judgment

Versatile

Expert in Warfighting and in the use of Emerging

Operating

- -See first
- -Understand firs
- -Act first
- -Finish Decisivel

Interacting

- Listen
- Speak
- Network
- <u>Improving</u> -Learn
- -Grow
- -Achieve

The Objective Force Soldier - Center piece of our Warrior Culture

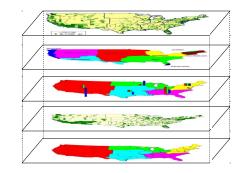
Transforming The Accessions Process -

Accessing

FIRST HANDSHAKE

UNDERSTAND THE MARKET

Situational awareness Objective Force market dynamics





STRATEGIC OUTREACH

Leverage communications technology National campaign strategy Warrior Ethos message

RECRUIT

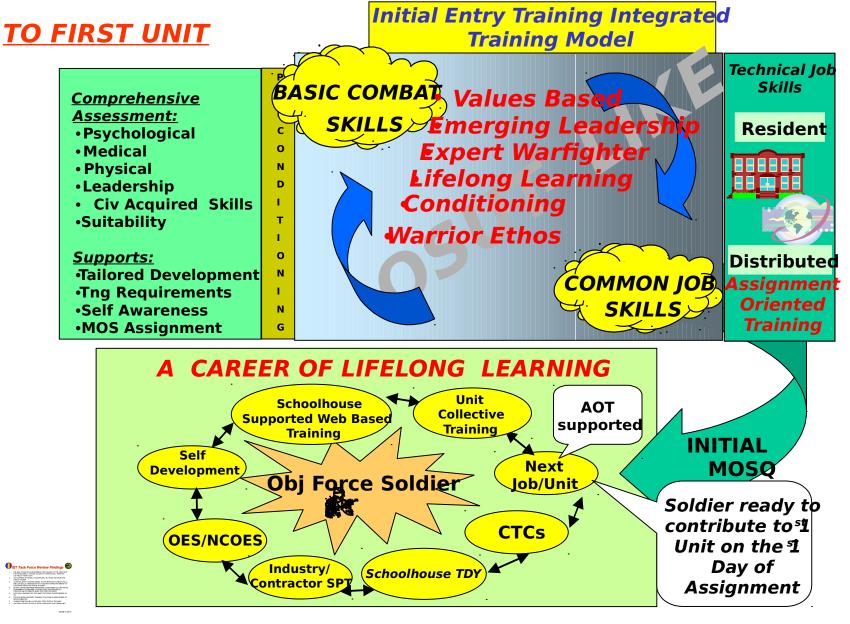
Empower recruiters through selection and training Web-based recruiter engagement Physical, mental, skill-based assessment



"A seamless, integrated, standards based process that transitions between recruiter, soldier, trainer, and first unit"

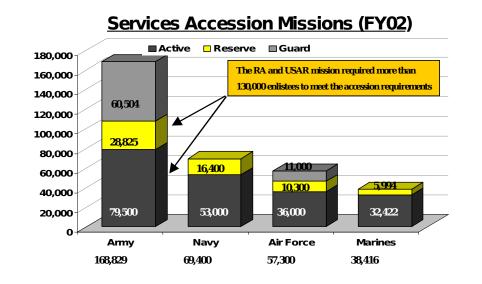
• Market • Outreach • Recruit • Assess • Preconditionin

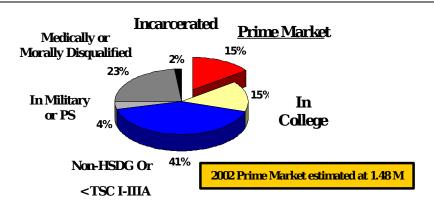
Transforming The Accessions Process



Market · Outreach · Recruit • Assess • Preconditioning

Magnitude & Scope of the Mission





- The Army (RA, USAR and NG) mission is greater than all other services combined.
- Army recruiting is complex and precise.

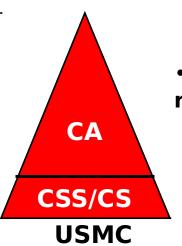
Must locate qualified applicants and present them the full array of Army

opportunities:

- over 200 enlisted specialties
- 40 Warrant Officer Specialties
- ROTC and OCS Missions
- 48 Medical Officer specialties

"Right Paindienciahid Right Skill - Army Civilian Acquired Skills at the Right Time and Place." Program

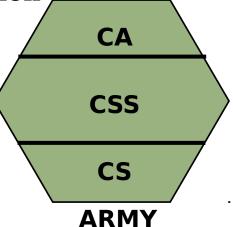
"You recruit an entire French Army a year." BG Elrick Irastorza, Director French Army Recruiting Command, USAREC Visit 29 April 2002



Magnitude & Scope of the Mission

 The Army must recruit for a broad range of skills with universal quality and standards.

 Every soldier's job in Army formations is an important one.



- Force composition drives recruiting requirements
 - USMC composition: CA 62% and CSS/CS 38%
 - Army composition: CA 27.2%, CSS 42.8%, and CS 30%
 - USMC recruits for 38 enlisted programs
 - Army recruits for 212 enlisted specialties (+)

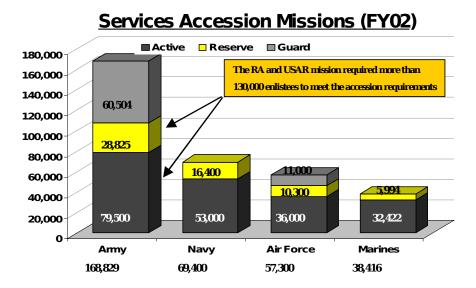


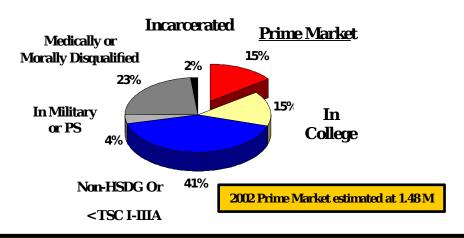






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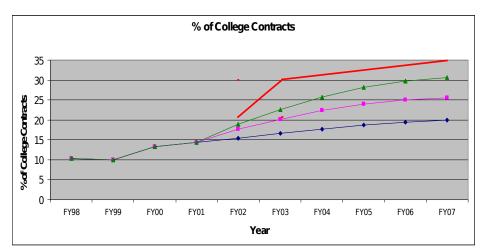
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Growing the Objective Force Leader

	Goal:	FY 02 :	FY08:
HS	90%		91 %
94%			
CAT I-IIIA	63.5%	68%	
75%		\rightarrow	
CAT IV	2.0%	1.38%	
1.38%			
"Some College"	15 %	21.1%	
B = 0 /			

- •3570 grow our prime market, must Hispanic 12, which was a second our efforts in the college MOS Precision market9.9% 100%
- The Objective Force Leader is on





The FY02 cohort are the future NCO leaders of the Objective Force

The accession process is about finding our future soldiers and developing them into our future leaders!

Characteristics

FROM TODAY

Generation X
Millennials
Market trends

- Prime market growing at slow pace
- College continuation remains high
 - More diverse than previous generations





TO TOMORROW

Next generation not identified Market trends

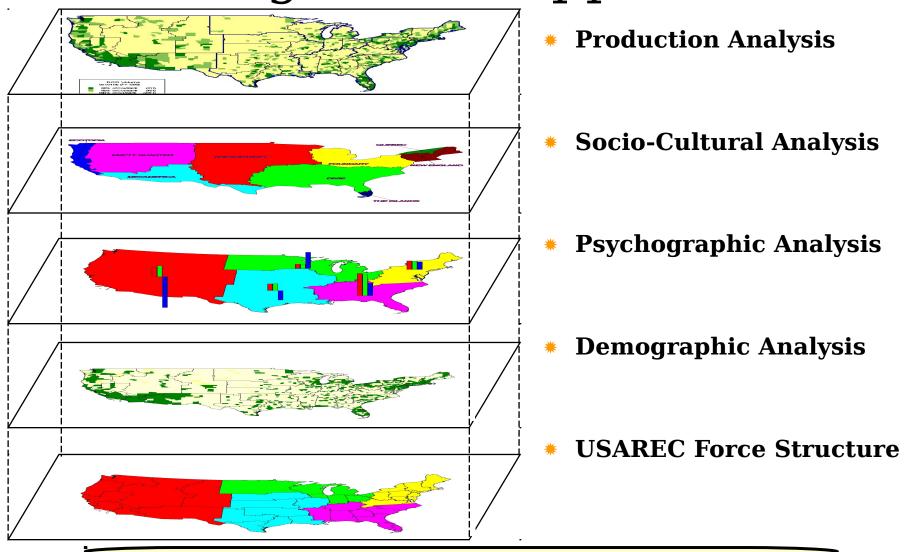
- Prime market growing at slow pace
- College participation increasing
 - Highly diverse society

Impact on the Objective Force

- Skill mix more combat heavy; may reduce percent of females
- Higher aptitude; need to train more complex weapon system
 - Somewhat greater seniority

"Market research is imperative to pinpoint the objective force soldier with unprecedented accuracy!"

Strategic Market Assessment--Using an IPB Approach



• Market • Outreach · Recruit · Assess · Preconditioning

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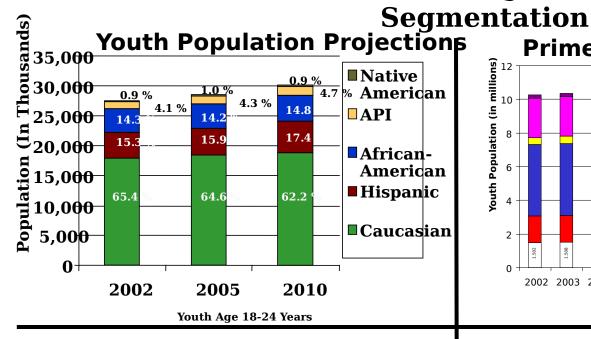
TO TOMORROW

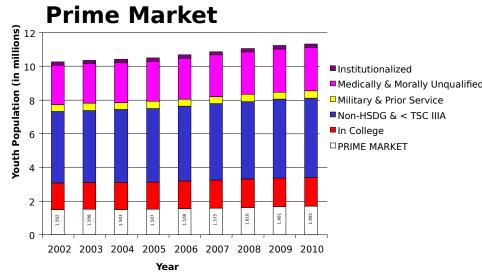
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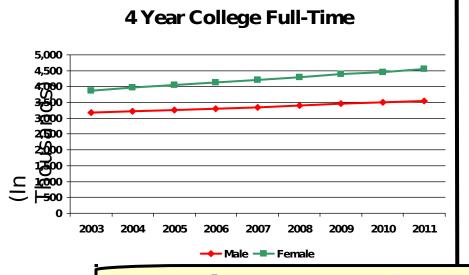
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High rate of college continuation and market diversity require a transition to advanced analysis and adaptive methods to dominate.

• **Market •** Outreach • Recruit • Assess • Preconditioning • 1

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Implications

Invigorate market research

Harder to identify OFS as society becomes more diverse socially/economically/culturally

Consider 3 dimensions: cognitive, physical and socio-/psychological

Develop more efficient, high-value targeting process

Seek integrated partnerships to share emerging opportunities

Strategic Outreach

FROM TODAY

- National Campaign Strategy
 - Establish Army as Top of Mind
 - Leverage communication strategies
 - Targets future soldiers and influencers
 - National events to drive industry and local involvement

TAMACC TO TOMORROW



- Deliver the values based Warrior Ethos message
- Precise targeting of message and media to emerging markets
- Shapes the attitudes and perceptions of the American people toward the









Implications

Respond to the future environment to reach the OFS

Requires real time response capability
Rapid and adaptive tailoring of
messages

Stay ahead of the pace of change Technology driven synchronized marketing and communication process

Transformed Integrated Process

Recruiter Selection and Training

FROM TODAY

- Volunteer (35%) / Detailed (65%)
- Minimum Criteria
- Traditional training program
- Predominantly classroom environment - little simulation
- Doesn't integrate and capitalize on technology
- Provides minimum knowledge base prior to first assignment

Standardize image

Central to success Maximize technology

Identify innate skills



TO TOMORROW

- All Volunteer
- Selection and screening instruments
- Tailored, self-paced training
- Employs virtual environment and use of simulation
- Fully integrates and maximizes technology (Web)
- Provides confident and competent recruiter

"Recruiters that embody the model objective force soldier with skills, professionalism and technology."

Implications

Fewer NCOs required to achieve higher levels of production in a quality market

Enable recruiters with technology Recruiter must operate integrated systems in a dynamic environment

In a more focused market, the recruiter must dominate

Transformed Integrated Process

Accessions Process TO TOMORROW



FROM TODAY

- Limited, assembly line like assessment
- ASVAB excludes from jobs
- Tied to fixed facilities
- Inefficient, mass processing
- Not responsive to the applicant

- Comprehensive assessment
 - Personality/Adaptive screening
 - Medical diagnostic evaluation and qualification
- Best fit MOS (KSA / Select XXI)
- Real time sales
- Mobile, networked recruiter
- **Responsive and flexible**



Implications

Maximizes current capability and potential of Objective Force Soldier Synergistic approach to MOS assignment Shortens the process from civilian to **Objective Force Soldier** Cost effective **Customer oriented** In-depth assessment **Improves Trainability**

Reduces new soldier losses

Transformation Estimates

(FY03-09)



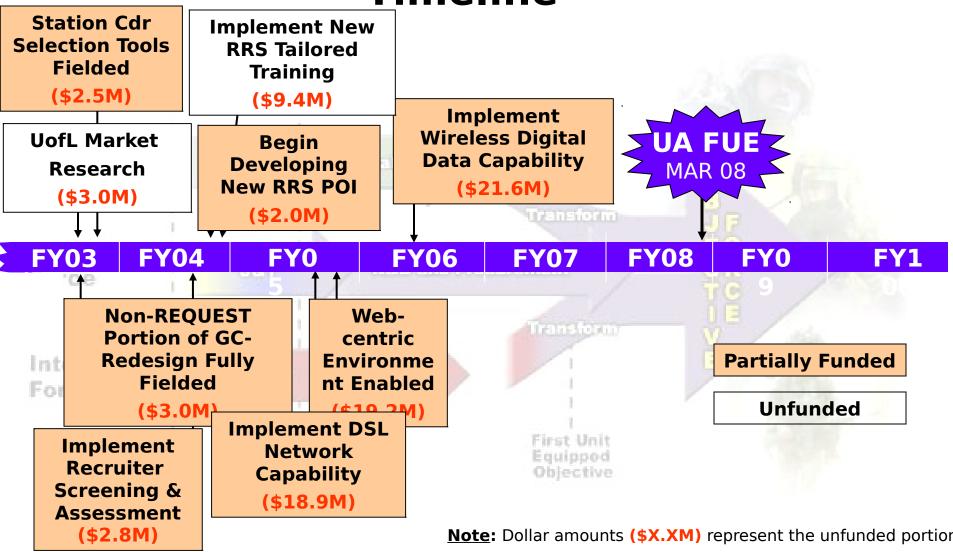
Information Technology: Includes the necessary HW & SW investments to move our current recruiter support systems away from client server to a web-based environment...as well as implementation of a common portal to allow access from the outside (e.g., for applicant self-processing)

CATEGORY (In Millions)	FY03	FY04	FY05	FY06	FY07	FY08	FY09	Total
Operations (Incl Facilities)	7.7	11.7	9.2	9.6	10.8	1.9	1.5	52.4
Information Technology	12.2	11.2	2.9	2.6	3.2	2.6	2.6	37.3
Communications	3.3	6.5	8.4	8.5	7.0	4.0	3.0	40.7
Training	2.8	4.6	3.0	1.0	1.0	1.0	1.0	14.4
Strategic Outreach		14.0	19.3	30.6	33.0	35.6	38.5	171.0
Total	26.0	48.0	42.8	52.3	55.0	45.1	46.6	315.8

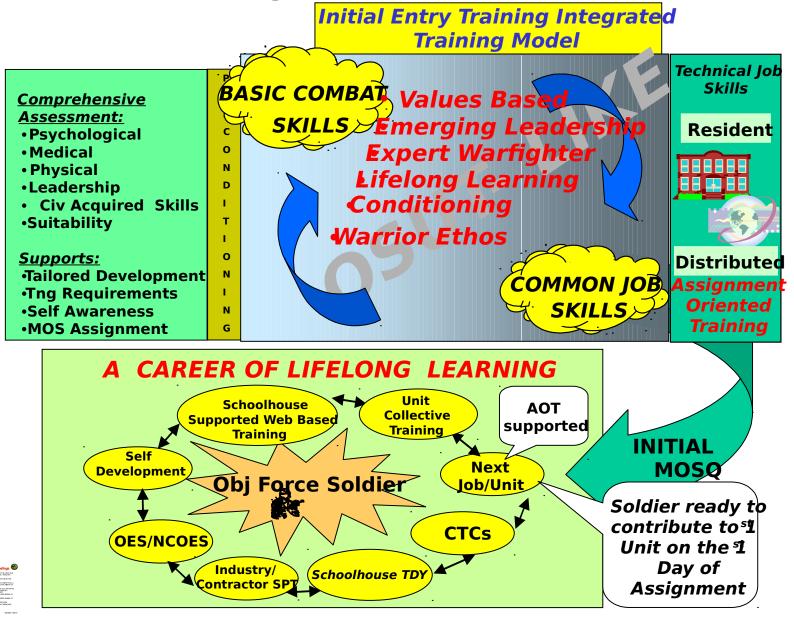
Strategic Outreach: Includes incremental research costs to identify specific requirements and to test new programs for future recruiting efforts...as well as the addition of targeted marketing programs in FY04 and FY06



Objective Force Recruiting Timeline

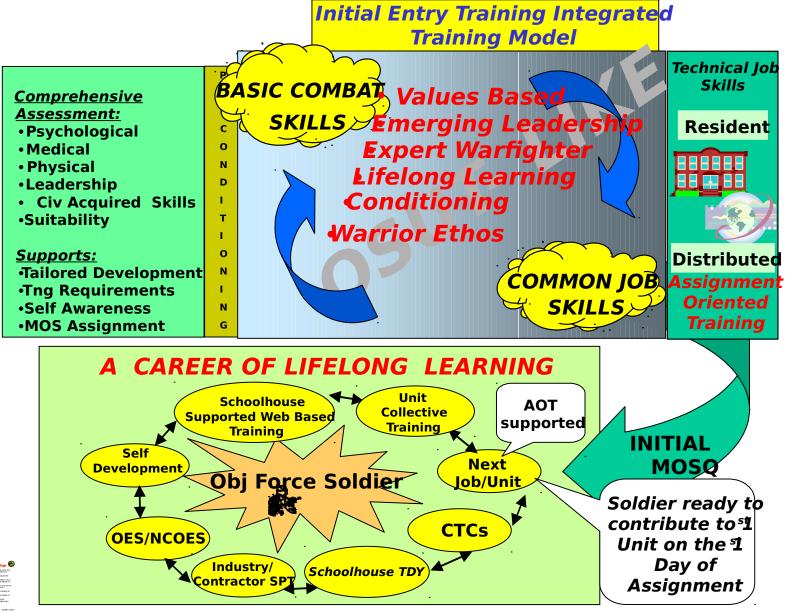


Transforming The Accessions Process



<u> Market Outreach Recruit Assess Preconditioning</u>

Transforming The Accessions Process



PRECONDITIONING

FROM TODAY

- Limited Assessment/ Inaccurate Predictor of Success
- Attrition-Based System
- Extensive Rehab Time/ Physical & Psychological



Sets Soldiers Up for IET SUCCESS!



nvests in soldiers
qualified to be
in the Army

TO TOMORROW

- Comprehesive Assessment-Based Training
- Tailored PRT
- Language
- Soldiers Positively Reinforced



Implications

Leverages Early Assessment (Training Population has High Potential for Success)

Drives the Overuse Injury Population to Zero

Reduces TTHS
(Preconditioning time much less than rehab)

Maximizes Flow Through IET

Maximizes Potential for Retention

OF Initial Entry Training



FROM TODAY

- •BCT, OSUT, AIT Constructs
- Branch vice Warrior Ethos
- •High Student-Instructor Ratio
- Standard Army PRT
- Minimum Standards Based

TO TOMORROW

- Job Skills Trained under Battlefield Conditions/Integrate Combat Skills
- Value Based, Warrior Ethos Imbued
- Maximum Potential Focused
- Unit Cohesion Leveraged to the Fullest
- PRT Designed to :
- Maximize Performance
- Minimize Attrition
- Follow-on Technical Skill Training By Exception/Multiple Means
- Modernization Fully Synchronized with Opn'l Army Equi

Implications

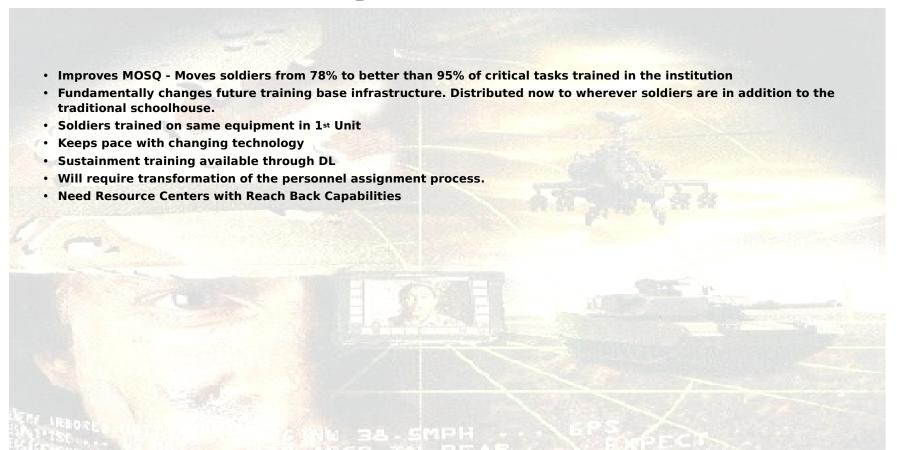
- High Performance MOSQ- Immediately Relevant to 1st Unit
- Supports Train, Alert, Deploy
- Grounded in Army Values
- Imbued with Warrior Ethos
- Enabled by OF MOS Modernization (Task Update, MOS Consolidation, Restructure)

Assignment Oriented Training

- Training focused on requirements for unit assignment
- Component of Life Long Learning Process - Provides TRADOC resident and/or distributed training
- Permits training of individuals for an Army comprised of Legacy, Stryker, and Objective Forces next 25 years
- Enables unit manning and unit rotation options
- Improves unit readiness soldiers arrive able to immediately contribut to the unit



Implications



Life Long Learning

Creating Knowledge Center Army Knowledge Cahou Army Knowledge Ca

TADLP

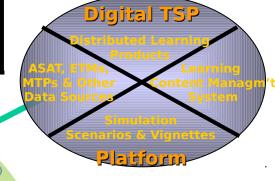
Army @Learning Partnership with

The OF Soldier

Multi-skilled

MSB DS/GS

- Increased span of responsibility
- Aided by technology







Legacy: 1 Mechanic Per 2 Combat Systems 2 Level Maintenance

FSB

Interim: 1 Mechanic Per 7 Combat Systems

Objective: 1 Mechanic Per 23 Combat Systems

Enabled by Embedded
Prognostics & Diagnostics and
Significant Increases in Reliability



MOSQ



Robust Life-Long Learning Provides:

- Reach back to SME's at institution
- Technical updates
- Right-time training



Implications

- Wherever Soldiers / Leaders are Located
- Just-In-Time / On-Demand
- Reduces overall training and simulation development
- Interactive computer simulation
- Multiple repetitions at minimum cost
- 24/7 reach for support on materials, information, and help
- Improves Individual and Unit Readiness
- Standardized Training
- PERSTEMPO Reduction-Reduced TD
- RC Man-Day Reduction
- Reduces TTHS
- Cost Avoidance

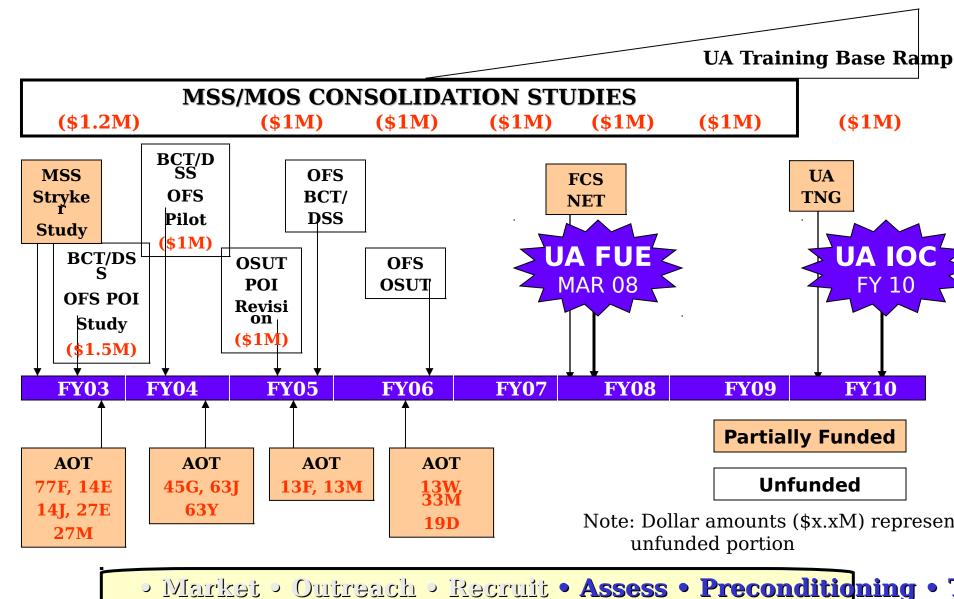


Transformation Estimates (FY03-09)

CATEGORY	FY 03	FY 04	FY 05	FY 06	FY 07	FY 08	FY 09	TOTAL
Preconditioning Study	\$1.5M							\$1.5M
BCT/DSS POI								
Development & Pilot	\$1.5M	\$1M						\$2.5M
OSUT POI Development			\$1M					\$1.0M
Assignment Oriented Training								
Life Long Learning*	\$8.8M	\$50.0M	\$43.7M	\$37.6M	\$33.8M	\$33.8M	\$33.8M	\$221.5M
MSS/MOS Consolidation*	\$1.2M	\$1M	\$1M	\$1M	\$1M	\$1M	\$1M	\$7.2M
TOTAL	\$13.0M	\$52.0M	\$45.7M	\$38.6M	\$34.8M	\$34.8M	\$34.8M	\$233.7M

^{*} Previously presented at DTLD RRC

Objective Force Training Timeline



<u> A Seamless Transition in an Integrated Process</u>

Comanche Aircraft Repair Example

1. Understand the Marke trategic Outreach 3. Recruit

- Situational Awareness (locate the market)
 - Embry Riddle
 - VOTECH

- Direct mail to prospects wit Recruited by those Selected and Trained aviation interests
- Aviation periodical advertisities essed to determine if
- Aviation industry partnershiptable for aircraft repair
 - Sold on the job and schedule for training at the prospects h -or -
 - Self applied on the web

Market Outreach Recruit









<u>A Seamless Transition in an Integrated Process</u>

Comanche Aircraft Repair Example

4. Assess

5. Preconditioning

6. <u>Train</u>

- Medically qualified using diagnostic
- Begins preconditioning with Begins Comanche aircraft comprehensive assessment repair OSUT
- evaluation instruments Conducts three weeks of Basic combat skills
- Assessed as requiring strengthening exercise preconditioning and scheduled
- Basic combat skills integrate with field oriented aircraft repair
- Completes training and reports to Comanche maintenance support unit

Assess

Preconditioning









- Prospect (w/some college) better suited for job:
 - Less DEP Loss
 - Less training base attrition
 - Retains soldiers from contract to first unit
- Less attrition drives mission down
 - Reduces training base
 - Reduces recruiter

requirements

Developing & Equipping the Objective Force Soldier



ASA(ALT)

Objective Force Soldiers Requirements

FCS ORD identifies Soldier requirements:

- Improved Soldier capabilities with:
 - Lethality / Survivability / Mobility / Sustainability / C4ISR / Training
- Increased Soldier survivability: (Mounted or Dismounted)
- Reduced Soldier load
 - > 40 lbs
 - No degradation with soldier mobility or performance during individual and collective tasks
- Increased equipment durability / comfort / functionality / ease of operation
- Integration for Soldier C4ISR
 - Equipment / Recharge capabilities / tactical updates
- Storage for individual Soldier
 - Equipment sets / electronic training records / personnel data / doctrinal publications / unit SOPs

Equipping the OF Soldier - Science and Technology

Equipping the OF Soldier - Science and Technology

S&T for Full Spectrum Objective Force **Soldiers**

Unmanned Vehicles





OAV (L) A-160 Hummingbird



Mule

Supply Platoon



NLOS/BLOS Fires



Robotics

Human

Factors



Objective Force Warrior



Objective Force

Sustainment

Medical



- Adaptive leaders
- Mentally agile for
- Cognitive readines





- Virtual command experience
- 360° leadership

Training Training





Human Factors Engineering

- Human modeling for design
- Cognitive engineering
- Materiel handling/maintenance
- Increase Crew Performance/ Efficiency
- Reduce Crew Size
- Advanced Open Architecture



Water Recovery & Purification

- Vehicle exhaust
- Ambient air
- Compact, lightweight, energy efficient



Rations/Fiel d Feeding

- Enhanced nutrition
- Cogeneration
- · Reduced weight Precision Airdrop

fuel and water consumption

Medical Mission Package

- Advanced Resuscitation Fluids
- Automated Critical Care Systems
- Acoustic Hemorrhage Control



CSS COA Software

Intelligent Agent Alerts



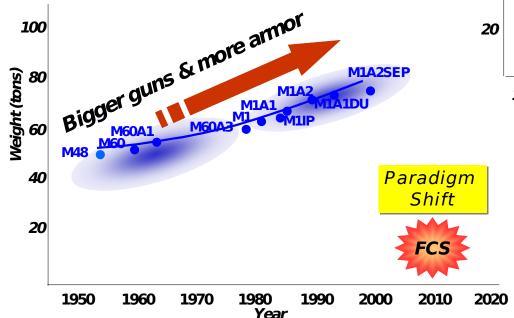
- GPS guidance
- Soft landing
- Drive-on/drive-off

Objective Force Designs A System of Systems Approach

Weight (lbs)

Transformation Demands Paradigm Shift

•Future Combat Systems (FC





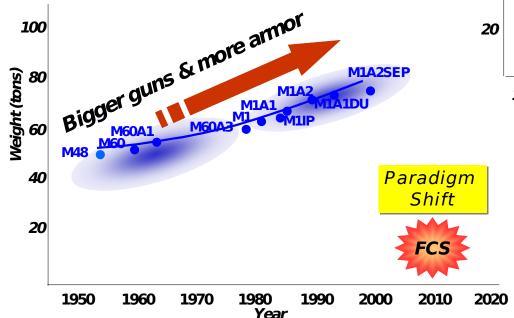
...Yielding Discontinuity in Capabilities

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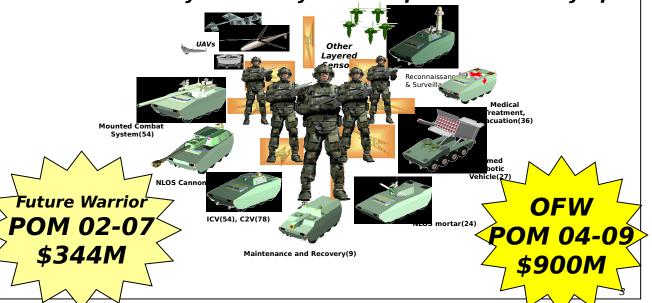


...Yielding Discontinuity in Capabilities

Resourcing Warrior Transformation

The Soldier Completes the UoA/FCS Concept

FCS is the networked system of systems that will serve as the networked system of systems that will serve as the network with core building block within all maneuver Unit of Action echelons to develop overmatching combat power, sustainability, aging, pounds and versatility necessary for full spectrum military operations.



fighting load in all terrain and weather conditions - - with an interest in getting the Soldiers' fighting load to 15 pounds."

"Objective Force

Soldiers will be

- United States Army White Paper -Concepts for the

The Soldier is the Center piece of the Objective Force

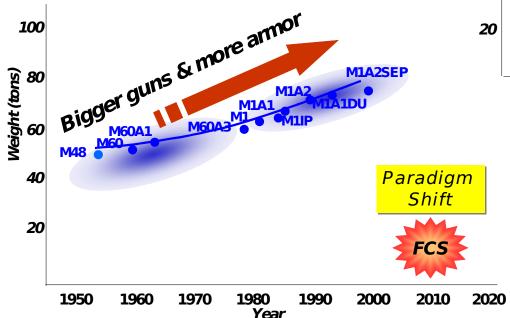
Objective Force Designs A System of Systems Approach

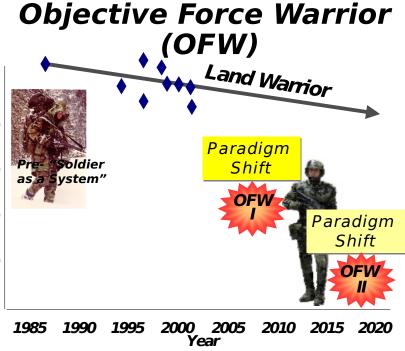
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Weight (lbs)

Transformation Demands Paradigm Shift

•Future Combat Systems (FC





...Yielding Discontinuity in Capabilities OFW Advanced Technology
Demonstration Dismounted Capability for

Netted











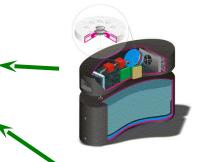
Interface with Robotic Mule, UAV, Soldier UGVs



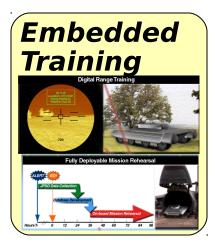
Integrated Combat Ensemble & Helmet



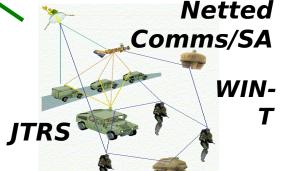




Lightweight Hybrid Powel System







Warfighter Physiological Status Monitor

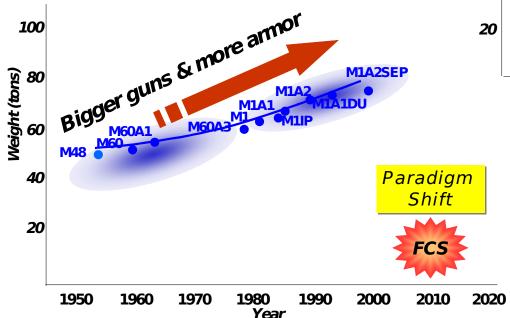
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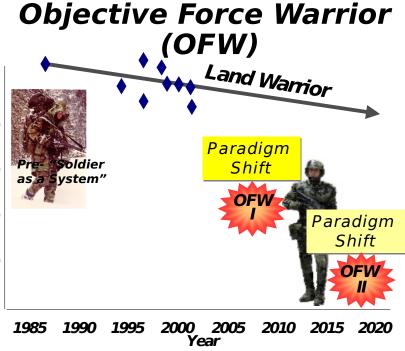
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Transformation Demands Paradigm Shift

•Future Combat Systems (FC





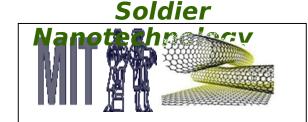
...Yielding Discontinuity in Capabilities

Objective Force Warrior II

and Beyond

Lightweight Individual Weapons

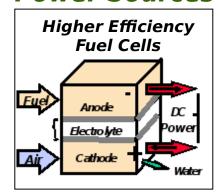




Immersive Environments



Power Sources



Flexible Displays

Biotechnology



Biologically derived power and energy



Microturbines

Higher Energy Density than Batteries

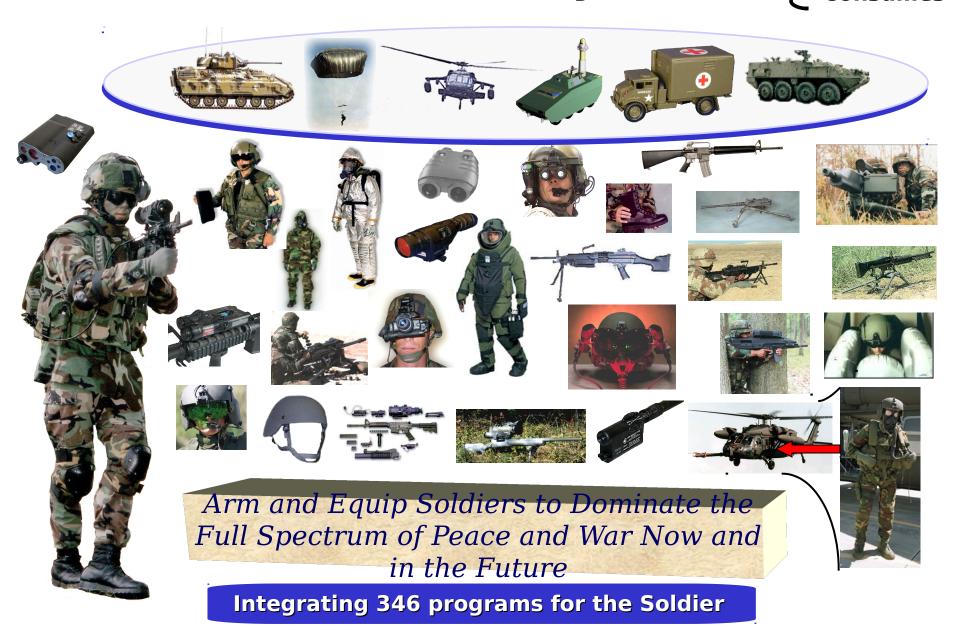
- •For similar power output:
 - 20X lighter
 - 18X smaller



The Next Paradigm Shifts

Soldier As A System

WearsCarriesConsumes



Managing Soldier System Transformation

Requirements

Platform Centric

Soldier Centric

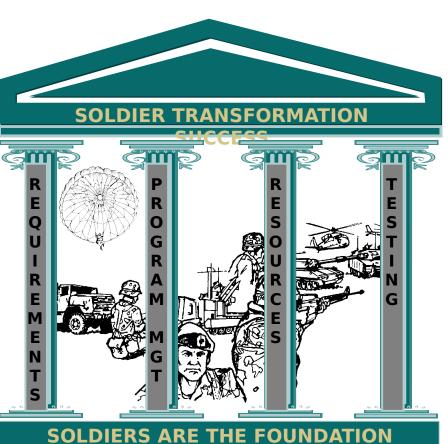
IS THE BALANCE RIGHT?

Soldier as a System

- Mission Need Statement
- Capstone Requirement Document
- AROC

Program Management

- PEO Activated 7 Jun 02
- 346 Programs
- PEO/S&T OFW Team



SOLDIERS ARE THE FOUNDATION OF ARMY TRANSFORMATION

Resources

- S&T, SDD, & Procurement
- Future Soldier Programs
 - LW BLK III
 - XM-8
 - XM-29
 - XM-307
 - Air Warrior
- Establish Budget
 Operating System (BOS)
- Small Arms Industrial Base
- Centralized Funding and Fielding (CFF)
- Soldier Enhancement Program (SEP)

Testing

- COTS Use
- Technology Insertion

"Soldiers are the Centerpiece of our Formations"

GEN Shinseki

Objective Force Soldier





Today





Soldier Today



Objective Force Soldier











Land Warrior Ranger/Stryker



Land Warrior Program

Objective Force Soldier











Land Warrior Advanced Capability FCS Block I Capabilities in FY08

Lethality

- Linkage to netted fires
- XM8, XM29, XM307, XM107



- ✓ FCS/Stryker network interface
- ✓ Compact, low power digital radio
- Mobile, ad hoc tactical network
- Organic RISTA at small team level
 - Micro Air Vehicle
- JTRS Cluster II Block II
- ✓ Fused I²/thermal
- Customized multi-modal Inputs (voice, tactile, visual)



Survivability

- Integrated, full-spectrum protection
- Signature management
- ✓ Active thermal management
- ✓ Physiological status monitoring
- ✓ Remote Triage



Sustainability

- √ 24 hr operations w/o re-supply
- Resupply from small team platform
- ✓ Hybrid power source
- ✓ Performance condition
- √ Training on-the-move; maintain proficiency (20% inc)
- √ Mission rehearsal (EMPRS)



✓ Denotes New Capability

- ✓ Off-load body-borne weight to mule 50 lbs on soldier
- √ 3D Navigation



The Soldier System

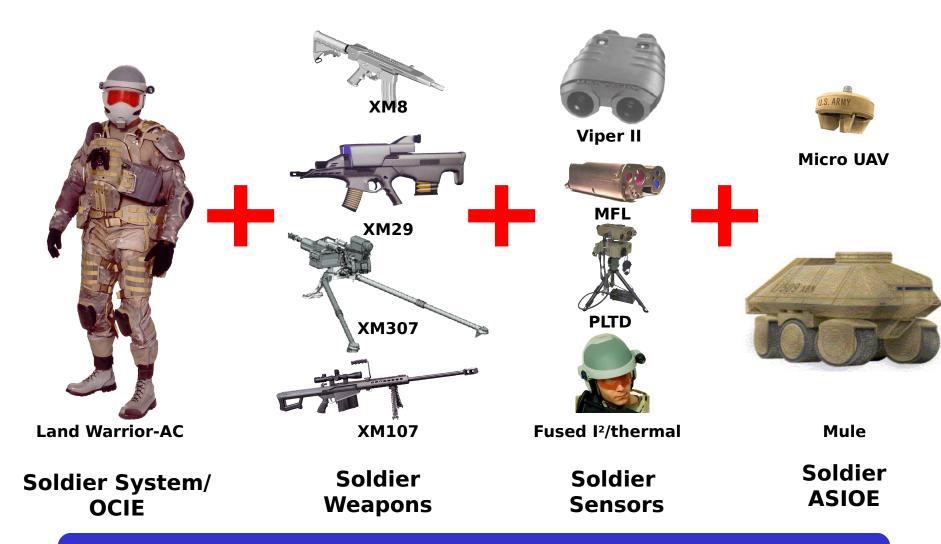


Key Points

- Soldier as a System concept Key to Success
- Army must balance between soldier centric and platform centric needs
- Establish common baseline for all Soldiers
 - Optimize the capability across all MOS
 - Focus as required for unique needs/missions
- All Soldier development and procurement activities must be centralized in a single Battlefield Operating System
- Organize Soldier PPBES For Soldier as a System

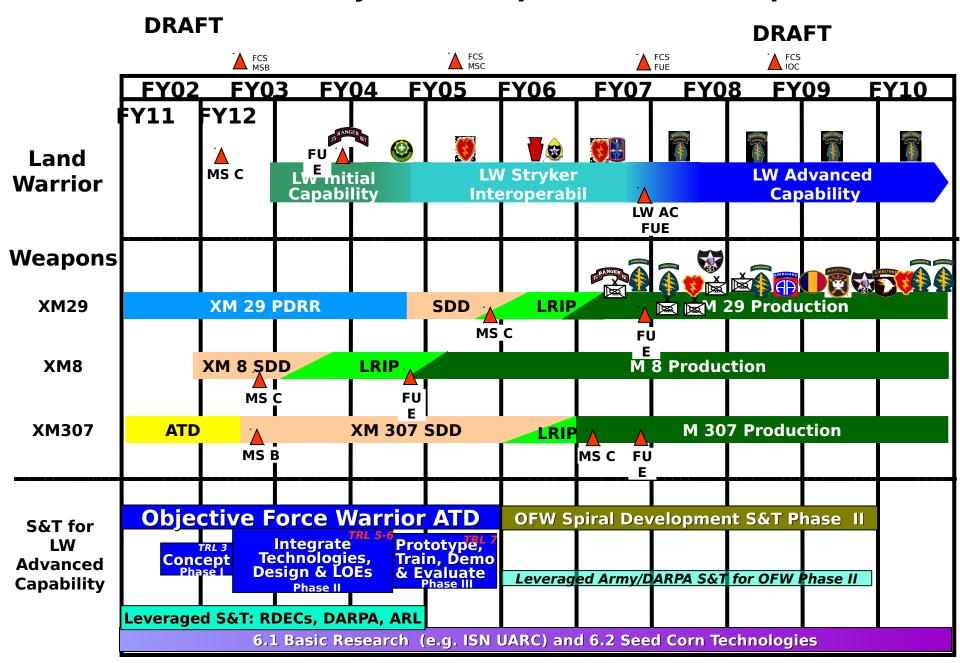
Common Issue with Mission Specific Kit

Objective Force Soldier Fielding Integration



Alignment and Funding of Multiple Programs Required to Field the Objective Force *Soldier*

Soldier Systems Acquisition Roadmap



SOLDIER WILL BE CENTERPIECE OF THE OBJECTIVE FORCE FORMATION

Requirements +
Resources = Capability

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Objective Force Soldier RRC Recommendations

- CSA approve concepts and way ahead to market, outreach, recruit, assess, precondition, train, and equip the Objective Force Soldier
- CSA approve concept to pursue a new management model for Soldier weapons and equipment acquisition





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